

(19)



(11)

EP 4 354 042 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
01.05.2024 Bulletin 2024/18

(43) Date of publication A2:
17.04.2024 Bulletin 2024/16

(21) Application number: **24160502.1**

(22) Date of filing: **13.07.2018**

(51) International Patent Classification (IPC):
F24F 11/49 (2018.01) **F24F 11/526** (2018.01)
F24F 11/64 (2018.01) **F24F 11/89** (2018.01)
G06F 3/16 (2006.01) **G10L 15/00** (2013.01)
F24F 130/40 (2018.01) **F24F 11/38** (2018.01)
F24F 11/50 (2018.01) **F24F 11/65** (2018.01)
F24F 120/20 (2018.01) **F24F 11/63** (2018.01)
G05B 23/02 (2006.01) **G10L 15/22** (2006.01)

(52) Cooperative Patent Classification (CPC):
F24F 11/63; F24F 11/38; F24F 11/49; F24F 11/64;
G05B 23/0221; G05B 23/0224; F24F 2130/40;
G05B 2219/2614; G06F 3/167; G10L 2015/223

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(30) Priority: **14.07.2017 JP 2017138570**
14.07.2017 JP 2017138576
01.05.2018 JP 2018088320

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
18831043.7 / 3 653 943

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(54) **DEVICE AND ABNORMALITY PROCESSING SYSTEM**

(57) A device (3020) that accepts a control command from an information processing apparatus (3100), the information processing apparatus outputting the control command in accordance with a sound input obtained through a sound input accepting apparatus (3060, 3060S). The device (3020) comprises: an accepting unit (3023) that accepts an abnormality processing command in response to an abnormal sound produced in a space (R) where the sound input accepting apparatus is provided; and an abnormality processing executing unit (25) that executes abnormality processing in accordance with the abnormality processing command.

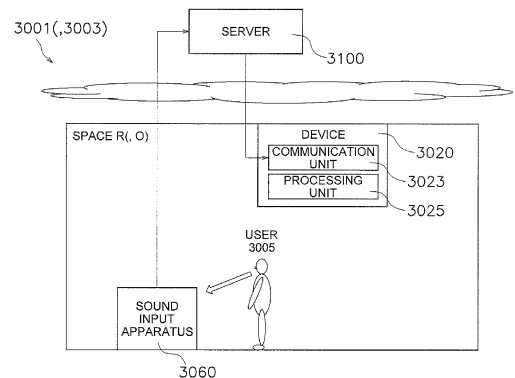


FIG. 14

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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2004 132683 A (DAIKIN IND LTD) 30 April 2004 (2004-04-30)	1-3	INV. F24F11/49
Y	* paragraphs [0040] - [0087]; figures 1-7 *	1-3	F24F11/526 F24F11/64 F24F11/89
Y	JP 2002 182688 A (SEIKO EPSON CORP) 26 June 2002 (2002-06-26) * the whole document *	1-3	G06F3/16 G10L15/00 F24F130/40 F24F11/38
A,D	JP H06 27986 A (TOSHIBA CORP; TOSHIBA COMPUTER ENG) 4 February 1994 (1994-02-04) * abstract *	1-3	F24F11/50 F24F11/65 F24F120/20 F24F11/63
A	EP 2 648 393 B1 (SAMSUNG ELECTRONICS CO LTD [KR]) 7 June 2017 (2017-06-07) * the whole document *	1-3	G05B23/02 G10L15/22
			TECHNICAL FIELDS SEARCHED (IPC)
			F24F G06F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 March 2024	Examiner Valenza, Davide
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03:82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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18-03-2024

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2004132683 A	30-04-2004	JP 4394893 B2 JP 2004132683 A	06-01-2010 30-04-2004
JP 2002182688 A	26-06-2002	JP 3838029 B2 JP 2002182688 A	25-10-2006 26-06-2002
JP H0627986 A	04-02-1994	NONE	
EP 2648393 B1	07-06-2017	CN 103364655 A EP 2648393 A1 EP 3240267 A1 KR 20130112568 A US 2013268806 A1	23-10-2013 09-10-2013 01-11-2017 14-10-2013 10-10-2013

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82